

Title (en)

AUTOMOTIVE IMPACT ENERGY ABSORPTIVE PART

Title (de)

AUFPRALLENERGIEABSORBIERENDES TEIL FÜR KRAFTFAHRZEUGE

Title (fr)

PARTIE D'ABSORPTION D'ÉNERGIE D'IMPACT POUR AUTOMOBILE

Publication

**EP 4147950 A1 20230315 (EN)**

Application

**EP 21824756 A 20210319**

Priority

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- JP 2021011352 W 20210319

Abstract (en)

An automotive crashworthiness energy absorptive part 1 according to the present invention absorbs crashworthiness energy by crushing axially when a crashworthiness load is input from a front side or a rear side of an automotive body, includes a tubular member 3 having a top portion 5a and a pair of side wall portions 5c continuous from the top portion 5a via corner portions 5b; a closed cross section space forming wall member 9 disposed on an inner surface side of the tubular member 3 and forming a closed cross section space between the closed cross section space forming wall member 9 and at least the corner portion 5b; and a resin 11 provided in the closed cross section space, in which the resin 11 contains a rubber-modified epoxy resin and a hardener, and has a tensile breaking elongation of 2% or more and less than 80%, providing excellent water resistance without generating interfacial peeling, an adhesive strength with the tubular member 3 and the closed cross section space forming wall member 9 of 12 MPa or more, and a compressive nominal stress of 6 MPa or more at a compressive nominal strain of 10%.

IPC 8 full level

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